Exploring Aeronautics			
2005 Science			
Content Standards			
South Dakota Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Fundamentals of Aeronautics (145-176)	SD	SCI.5.1.2.i	Use appropriate metric measurement to collect, record, chart, and/or graph data.
Fundamentals of Aeronautics (145-176)	SD	SCI.5.1.2.j	Interpret data and recognize numerical data that are contradictory or unusual in experimental results.
Fundamentals of Aeronautics (145-176)	SD	SCI.5.1.2.l	Define variables that must be held constant in a specific experimental situation.
Airplane Control(209-256)	SD	SCI.5.5.S.1.2.a	Explain why the benefits of science and technology are not available to all people.
Airplane Control(209-256)	SD	SCI.5.5.S.1.2.b	Describe the consumption of resources over time.
Scientific Method(124-144)	SD	SCI.5.1.2.i	Use appropriate metric measurement to collect, record, chart, and/or graph data.
Scientific Method(124-144)	SD	SCI.5.1.2.j	Interpret data and recognize numerical data that are contradictory or unusual in experimental results.
Scientific Method(124-144)	SD	SCI.5.1.2.l	Define variables that must be held constant in a specific experimental situation.
Exploring Aeronautics			
2005 Science			
Content Standards			
South Dakota Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Airplane Control(209-256)	SD	SCI.6.6.P.2.1.b	Newton’s Laws of Motion
The Activity Center	SD	SCI.6.6.N.2.1.a.3	Manipulate one variable over time with many repeated trials to test a hypothesis.
The Activity Center	SD	SCI.6.6.P.2.1.a	Demonstrate how all forces have magnitude and direction.
Science of Flight	SD	SCI.6.6.N.2.1.a.3	Manipulate one variable over time with many repeated trials to test a hypothesis.
Science of Flight	SD	SCI.6.6.S.1.1	Students are able to describe how science and technology have helped society to solve problems.
Integrating with Aeronautics	SD	SCI.6.6.N.2.1.a.4	Construct and interpret graphs from data to make predictions.
Intro to Aeronautics (109-123)	SD	SCI.6.6.N.2.1.a.4	Construct and interpret graphs from data to make predictions.
Intro to Aeronautics (109-123)	SD	SCI.6.6.P.2.1.a	Demonstrate how all forces have magnitude and direction.
Exploring Aeronautics			
2005 Science			

Content Standards			
South Dakota Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Fundamentals of Aeronautics (145-176)	SD	SCI.7.7.N.2.1.d	Identify sources of experimental error.
The Activity Center	SD	SCI.7.7.N.2.1.c	Control variables to test hypotheses by repeated trials.
Science of Flight	SD	SCI.7.7.N.2.1.c	Control variables to test hypotheses by repeated trials.
Science of Flight	SD	SCI.7.7.N.2.1.d	Identify sources of experimental error.
Intro to Aeronautics (109-123)	SD	SCI.7.7.N.2.1.d	Identify sources of experimental error.
Scientific Method(124-144)	SD	SCI.7.7.N.2.1.c	Control variables to test hypotheses by repeated trials.
Scientific Method(124-144)	SD	SCI.7.7.N.2.1.e	Interpret to make predictions and/or justify conclusions.
Scientific Method(124-144)	SD	SCI.7.7.N.2.1.f	Use research methods to investigate practical and/or personal scientific problems and questions.
Exploring Aeronautics			
2005 Science			
Content Standards			
South Dakota Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Fundamentals of Aeronautics (145-176)	SD	SCI.8.8.N.2.1.c	Control variables to test hypotheses by repeated trials and by identifying sources of experimental error.
Fundamentals of Aeronautics (145-176)	SD	SCI.8.8.N.2.1.f	Select appropriate scientific equipment and technologies for investigations and experiments.
Science of Flight	SD	SCI.8.8.N.2.1.f	Select appropriate scientific equipment and technologies for investigations and experiments.
Intro to Aeronautics (109-123)	SD	SCI.8.8.N.2.1.c	Control variables to test hypotheses by repeated trials and by identifying sources of experimental error.
Intro to Aeronautics (109-123)	SD	SCI.8.8.N.2.1.f	Select appropriate scientific equipment and technologies for investigations and experiments.
Scientific Method(124-144)	SD	SCI.8.8.N.2.1.c	Control variables to test hypotheses by repeated trials and by identifying sources of experimental error.
Scientific Method(124-144)	SD	SCI.8.8.N.2.1.d	Interpret data to justify predictions or conclusions.
Scientific Method(124-144)	SD	SCI.8.8.N.2.1.e	Use research methods to investigate practical and/or personal scientific problems and questions.

Scientific Method(124-144)	SD	SCI.8.8.N.2.1.f	Select appropriate scientific equipment and technologies for investigations and experiments.